

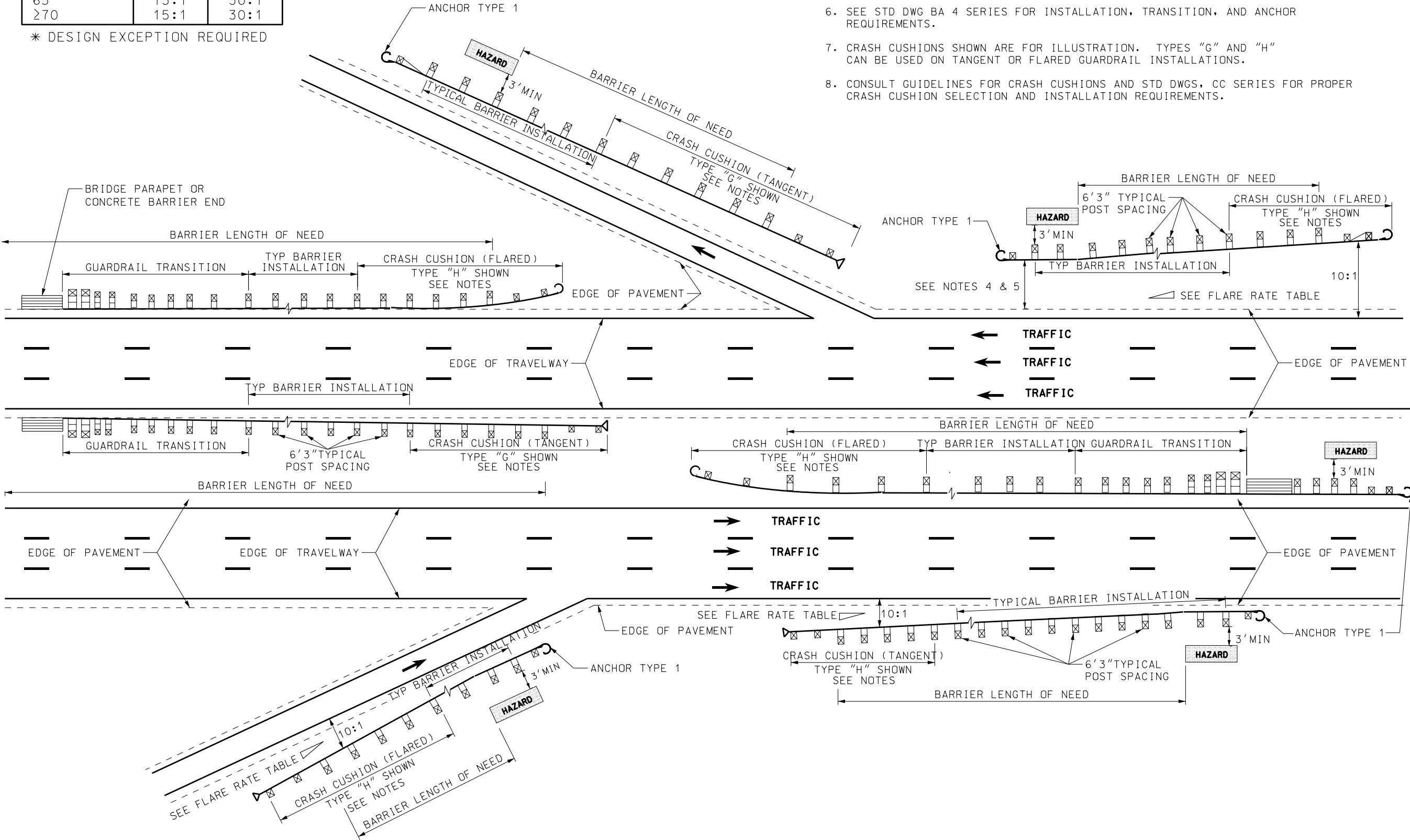
15-DEC-2004 DGN File: N:\Std\Standard Drawings\Imperial\2005\Approved Barriers (BA)\ba4f.dgn

FLARE RATE TABLE		
SPEED (MPH)	RATE OUTSIDE SHY LINE	* RATE INSIDE SHY LINE
≤35	7:1	13:1
40	8:1	16:1
45	10:1	18:1
50	11:1	21:1
55	12:1	24:1
60	14:1	26:1
65	15:1	30:1
≥70	15:1	30:1

* DESIGN EXCEPTION REQUIRED

NOTES:

1. CRASH CUSHION REQUIRED WHEN BARRIER END OR PARAPET END IS WITHIN 1.2 TIMES AASHTO ROADSIDE DESIGN GUIDE CLEAR ZONE REQUIREMENTS.
2. CONSIDER USING BURIED TERMINAL END, UDOT STD DWG BA 4I OR BA 4J WHEN CONDITIONS PERMIT.
3. USE FLARED GUARDRAIL INSTALLATIONS WHEN POSSIBLE.
4. USE SLOPES NO STEEPER THAN 10:1 FROM THE EDGE OF TRAVEL LANE TO THE FACE OF THE GUARDRAIL WHEN PLACED WITHIN 12' OF THE TRAVEL LANE.
5. WHEN PLACED 12' OR MORE FROM THE EDGE OF PAVEMENT, GUARDRAIL INSTALLATION CAN BE PLACED ON A SLOPE AS STEEP AS 6:1. SEE STD DWG BA 4E.
6. SEE STD DWG BA 4 SERIES FOR INSTALLATION, TRANSITION, AND ANCHOR REQUIREMENTS.
7. CRASH CUSHIONS SHOWN ARE FOR ILLUSTRATION. TYPES "G" AND "H" CAN BE USED ON TANGENT OR FLARED GUARDRAIL INSTALLATIONS.
8. CONSULT GUIDELINES FOR CRASH CUSHIONS AND STD DWGS, CC SERIES FOR PROPER CRASH CUSHION SELECTION AND INSTALLATION REQUIREMENTS.



UTAH DEPARTMENT OF TRANSPORTATION

STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

RECOMMENDED FOR APPROVAL

CHAIRMAN STANDARDS COMMITTEE

APPROVED

DEPUTY DIRECTOR

W-BEAM GUARDRAIL
TYPICALS
DIVIDED ROADWAYS

STD DWG
BA 4F

STANDARD DRAWING TITLE

REVISIONS

REMARKS

NO. DATE APPR.

JAN.01.2005

DATE

JAN.01.2005

DATE